Form PTO-948 (Rev. 06/03) Application No. <u>091783, 286</u>

### NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

| Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)  S)   | DD 4500000 25 CDD 104/ \ 4  | O ADDANGERANT OF THETHE 25 OFF 1 0400  |
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| fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)  9. SCALE. 37 CFR 1.84(k)  Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s)  10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)  Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor lir quality). Fig(s)  11. SHADING. 37 CFR 1.84(m)  Solid black areas pale. Fig(s)  Solid black shading not permitted. Fig(s)  12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)  Numbers and reference characters not plain and legible. Fig(s)  Legible. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)  Fig(s)  English alphabet not used. 37 CFR 1.84(p)(2)  Fig(s)  Numbers, letters and reference characters must at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception.  | I. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or  | 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i) Words do not appear on a horizontal left-to-rich |
| tion is that the top becomes the right side, except for graphs. Fig(s)  9. SCALE. 37 CFR 1.84(k)  Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  Fig(s)  10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)  Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor lin quality). Fig(s)  11. SHADING. 37 CFR 1.84(m)  Solid black areas pale. Fig(s)  Solid black shading not permitted. Fig(s)  12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)  Numbers and reference characters not plain and legible. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)  Fig(s)  English alphabet not used. 37 CFR 1.84(p)  Fig(s)  Numbers, letters and reference characters must at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(2)  Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabnumbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabnumerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.52  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception.  | Color (3 sets required).  |  |
| graphs. Fig(s)  9. SCALE. 37 CFR 1.84(k)  Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  Fig(s)  10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)  Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor lin quality). Fig(s)  ations,  11. SHADING. 37 CFR 1.84(m)  Solid black areas pale. Fig(s)  Solid black shading not permitted. Fig(s)  12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)  Numbers and reference characters not plain and legible. Fig(s)  Legible. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)  Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numbers beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exc when used to represent the color black as well a  | Color (3 sets required).  Color drawings are not acceptable until petition is |  |
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| Numbers and reference characters not plain and legible. Fig(s) A, 2C  Figure legends are poor. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p) Fig(s)  English alphabet not used. 37 CFR 1.84(p)(2)  Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception.   | sizes:  |  |
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| Figure legends are poor. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p) Fig(s)  English alphabet not used. 37 CFR 1.84(p)(2)  Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception.   | 21.6 cm by 27.9 cm (8 1/2x 11 inches)   |  |
| Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p) Fig(s)  English alphabet not used. 37 CFR 1.84(p)(2)  Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the color black as well as well as the color black as the co | All drawing sheets not the same size.   |  |
| the same direction as the view. 37 CFR 1.84(p) Fig(s) English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q) Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t) Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u) Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152 Surface shading shown not appropriate. Fig(s) Solid black surface shading is not permitted exception.  | Sheet(s)  |  |
| rgins: Definition Fig(s) English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q) Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t) Sheets not numbered consecutively, and in Arabe numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u) Views not numbered consecutively, and in Arabe numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152 Surface shading shown not appropriate. Fig(s) Solid black surface shading is not permitted exception.   | Drawings sheets not an acceptable size. Fig(s)                                |  |
| English alphabet not used. 37 CFR 1.84(p)(2)  Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arabe numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabe numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the color black as well as the color black as the color black as the color black  | 5. MARGINS: 37 CFR 1.84(g): Acceptable margins:                               | ·  |
| Fig(s)  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS 37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arabe numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabe numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the property of the color black as well as well as the color black as the color black as well as the | Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm                             | English alphabet not used 37 CFR 1 84(n)(2)  |
| Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS awings,  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arabe numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabe numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the property of the color black as well as well as a surface shading is not permitted exception.  | Margins not acceptable. Fig(s) 2A, 6-10                                       |  |
| at least 32 cm (1/8 inch) in height. 37 CFR  1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS  avings,  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the property of the color black as well as  |   | Numbers letters and reference characters must be   |
| 1.84(p)(3). Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as   | Right (R) Bottom (B)  |  |
| 13. LEAD LINES. 37 CFR 1.84(q)  Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exception of the property of the p | 6. VIEWS. 37 CFR 1.84(h)  |  |
| Lead lines missing. Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceeding the color black as well as   | REMINDER: Specification may require revision to                               | 13 LEAD LINES, 37 CFR 1.84(a)  |
| 14. NUMBERING OF SHEETS OF DRAWINGS  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as   | correspond to drawing changes, e.g., if Fig. 1 is                             |  |
| swings,  37 CFR 1.84(t)  Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as   | changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the                             | 14 NUMBERING OF SHEETS OF DRAWINGS   |
| Sheets not numbered consecutively, and in Arab numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as  | specification, at the Brief Description of the Drawings,                      |  |
| numbers beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceuded when used to represent the color black as well as   | must likewise be changed.   |  |
| 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as  | Views not labeled separately or properly.                                     |  |
| Views not numbered consecutively, and in Arab numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate. Fig(s)  Solid black surface shading is not permitted exceeding the color black as well as   | Fig(s)  |  |
| numerals, beginning with number 1. Fig(s)  16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted exceed when used to represent the color black as well as  | 7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)   | Views not numbered consecutively, and in Arab  |
| 16. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permitted excurbed when used to represent the color black as well as   |   | numerals, beginning with number 1. Fig(s)  |
| Surface shading shown not appropriate.  Fig(s) Solid black surface shading is not permitted excurrence when used to represent the color black as well as   | Sectional designation should be noted with                                    |  |
| Fig(s) Solid black surface shading is not permitted excurrence when used to represent the color black as well as   | Arabic or Roman numbers. Fig(s)   |  |
| Solid black surface shading is not permitted exc<br>when used to represent the color black as well as  |   |  |
| when used to represent the color black as well as  |   | Solid black surface shading is not permitted exc   |
|  |   | when used to represent the color black as well as  |
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|  | have questions, call (703) 305-8404.  | Attachment to Paper No.  |

# Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

#### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

#### 1. Correction of Informalities - 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

## 2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

#### **Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.